



## ecology and environment, inc.

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*International Specialists in the Environment*

### M E M O R A N D U M

TO: Brad Bradley, U.S. EPA, RPM  
FROM: David Klatt, E & E Site Manager  
DATE: August 14, 1991  
SUBJECT: NL Industries  
CC: Thomas Short, EPA, PO  
Thomas Yeates, E & E ARCS PM

In order to assist you in preparing for our scheduled project kickoff meeting at 1:00 p.m. on August 15, 1991, I have assembled a preliminary list of issues that are primary concern to E & E based on a review of the QAPP dated July 8, 1991. It is hoped that providing you with the broad issues presented below prior to the kickoff meeting will allow you to better anticipate the meeting's discussions and thus facilitate a more informative and mutually beneficial outcome.

The primary issues identified by E & E upon a review of the QAPP are as follows:

- o The ATSDR study protocol referenced on page 3 of the QAPP would be helpful to E & E in order to understand the over-all framework within which the project will be conducted. If this document can be obtained, E & E would like to receive a copy of it.
- o The total number of homes that are scheduled to be sampled is unclear. The Statement of Work dated July 15, 1991, indicates that 200 residences will be sampled, although the QAPP states that up to 1,000 households will be sampled in

TL  
1600 max

EPA Region 5 Records Ctr.



257780

Granite City and in an unidentified control area. A close approximation of the actual number of homes that will be covered by this project is needed as well as the location of the control area.

- o What is the status of any ongoing blood sampling activities currently being conducted by IDPH? What access agreements have been obtained with residents by IDPH? Has a full list of residences that will be covered by the study been developed by IDPH? Any information related to the above questions would be helpful.

TL - none yet  
- no info.

- o Task 2 of the scope of work indicates that survey results from ATSDR will be reviewed by E & E. Are these results available?

TL -  
next week

- o Will SAS analyses be necessary for the study or will RAS be utilized?

- o Any community relations type of activities that have, or will be, conducted by IDPH and ATSDR should be provided to E & E so that field personnel can answer any public concerns accordingly.

→ suggest  
IDPH  
accompany  
→ briefing by  
IDPH to  
sampling team

- o What specific elements does EPA wish to be included in the "brief" analytical data report prepared by E & E?
- o Does EPA anticipate continuous sampling activities for a four-week period including weekends? Given current circumstances, what is the expected schedule for the project?
- o Has a system for notifying residents of the analytical results been devised?

- o If residents collect their own water samples, will we supply them with the acid preservative already in the bottle? If so, this issue may bring up potential health concerns for the residents, especially concerning children who might come in contact with the acid in the bottles.
- o What equipment and supplies will be made available to E & E by EPA (i.e. XRF, vacuum, vacuum filters).
- o The vacuuming procedures mentioned on page 10 of the QAPP are in need of further explanation. A copy of the Sirchee-Splitter method would be helpful. Is there a minimum dust volume requirement for the vacuum sampling? In addition, in what manner does EPA wish E & E to measure the "total area sampled for the household," and to what degree of accuracy?
- o Lastly, page 11 of the QAPP indicates that sketches should be made of the locations sampled. E & E is concerned that sketches are highly subject to variation between different field personnel. What level of detail in the sketches is expected by EPA? Could photographs be substituted for sketches in any case?

don't recommend  
 ↳ ask R VII  
 whether  
 they'll do  
 first draw

none

- give  
 E & E  
 mid term  
 report

The above issues were of primary concern to E & E upon initial review of the QAPP and SOW. Additional issues will be discussed at the kickoff meeting.

I hope this memorandum helps you prepare for our meeting. If you have any questions, do not hesitate to call me.

Conf. Call

E & E + Renate Kimbrough  
+ Tom Short

8/19/91

- vacuuming for dust - volume taken might be enough for lab - windowsills are acceptable - 3 cities protected  
OK - also can do 3' sq area instead of 1' sq
- dust buster - paper filters may have Pb in them
- XRF - Pat has name + # of 2 companies in IL
  - 2 types: XK2 - for higher cones > Gammatouch
  - XK3
- operators must be certified (have taken training)
- 3 weeks for blood sampling
  - 2 weeks between blood + env. OK - really only critical for dust
- 1367 Niedringhaus - office for Pb Study personnel
  - do briefing on 9/13
- ⇒ Call Glenn Curtis - get off of first draw water samples - also ask him how they're doing - soil aliquots (i.e. w/ 103 aliquots, do you take 10% of volume from each or 50% from one & major play area, 50% collectively from other 9?) - suggest equal vol. from each aliquot - could do water @ end of each visit to ensure that 30 min
- ⇒ get Renate a copy of QAPP (if no use of H<sub>2</sub>O - tell resident to not use H<sub>2</sub>O during visit her sched.)
- ↳ Runy Inn 5:00 night, 1367 Niedringhaus on Wed

## SCOPE OF WORK

### **Environmental Sampling for Lead and Cadmium at the NL Industries/Taracorp Site in Granite City, Illinois**

**July 25, 1991**

## OBJECTIVE

The objective of this contract is to enable the contractor to conduct soil, house dust, drinking water, and paint sampling for lead and cadmium at the NL Industries/Taracorp Site in Granite City, Illinois ("NL Site") as part of the Multistate Lead Exposure Study ("the Study") that is being conducted by the Agency for Toxic Substances and Disease Registry (ATSDR).

## DESCRIPTION OF SPECIFIC TASKS

The contractor shall perform the following tasks:

1. Prepare a Work Plan outlining the implementation of the tasks spelled out in this SOW. The work plan shall include an estimate of the LOE and costs necessary, by task and professional level. The contractor shall attend a "kickoff" meeting on August 7, 1991, at 9:00 am to discuss the SOW.
2. Review the Quality Assurance Project Plan (QAPP) supplied by U.S. EPA and the survey results provided by ATSDR to become familiar with the addresses to be sampled at the NL Site and the sampling locations, sampling methods and analytical methods to be employed as part of the Study.
3. Perform sampling in accordance with all procedures outlined in the QAPP and at the addresses specified in the ATSDR survey results. ATSDR will provide access to all relevant properties. The field sampling (soil, house dust, water, and paint) duration shall not exceed 30 days. Approximately 200 residences will be sampled, equating to approximately 800 samples.
4. Analyze the collected samples for lead and cadmium at a Contract Laboratory Program (CLP) lab and in accordance with all procedures outlined in the QAPP.
5. Prepare a report summarizing the analytical results for presentation to U.S. EPA and ATSDR.
6. Participate in meetings, briefings, public meetings, and any associated pre-meetings and/or conference calls with U.S. EPA at the direction of the U.S. EPA Remedial Project Manager (RPM). The contractor shall budget 40

LOE for this task.

#### **REPORTING/DELIVERABLES REQUIRED**

- The contractor shall prepare a draft report summarizing all analytical results for submission to U.S. EPA and ATSDR. Upon receiving U.S. EPA and ATSDR's comments on the draft report, the contractor shall, if necessary, prepare the final report summarizing the analytical results.
- The contractor shall prepare a presentation for technical review or public meetings if requested by the RPM.

#### **TRAVEL**

The contractor will be required to travel to Granite City, Illinois for a period of up to several weeks.

Contact: Brad Bradley, RPM  
(312) 886-4742

Justification for Expedited Status: The Multistate Lead Exposure Study requires extensive coordination between U.S. EPA and ATSDR. ATSDR will collect epidemiological samples in the Granite City, Illinois area in mid-August, 1991. U.S. EPA must, as a result, begin to collect the environmental samples no later than the end of August 1991, or the Study will be compromised.

#### **PROJECT DURATION**

The Project duration is estimated to be approximately 6 months from August 1991 through January 1992.